



PTO/SB/08A (08-03)

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 4

**Complete if Known**

Application Number	10/732,717
Filing Date	December 10, 2003
First Named Inventor	Eric Arthur Johnson
Art Unit	2856
Examiner Name	To be assigned
Attorney Docket Number	2003-2

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
E	AA	US- 4,703,253	10-27-1987	Strommen	
	AB	US- 5,563,341	10-08-1996	Fenner et al.	
	AC	US- 5,627,749	05-06-1997	Waterman et al.	
	AD	US- 6,393,921 B1	05-28-2002	Grimes et al.	
	AE	US- 6,397,661 B1	06-02-2002	Grimes et al.	
	AF	US- 6,639,402 B2	10-28-2003	Grimes et al.	
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

Examiner  
Signature

Edwards

Date  
Considered

4/12/06

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Sheet 2	of 4	Attorney Docket Number	2003-2

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
E	AG	Al-Qadi, I.L. et al. (1997) Design and Evaluation of a Coaxial Transmission Line Fixture to Characterize Portland Cement Concrete. Construction and Building Materials 11(3):163-173.	
E	AH	Bariain, C. et al. (2000) Optical Fiber Humidity Sensor Based on a Tapered Fiber Coated With Agarose Gel. Sensors and Actuators B 69: 127-131.	
E	AI	Budtova, T. et al. (2001) Hydrogel Suspensions as an Electro-Rheological Fluid. Polymer 42: 4853-4858.	
E	AJ	Dec, A. et al. (1998) Micromachined Electro-Mechanically Tunable Capacitors and Their Applications to RF IC's. IEEE Transaction on Microwave Theory and Techniques 46 (12): 2587-2596.	
E	AK	Fenner, R.L. et al. (1997) HMX2000 - A Shear/Stress MEMS Hygrometer. Detroit (Michigan) Sensors Expo '97: 13 pp.	
E	AL	Fenner, R.L. et al. (2000) MEMS Humidity Sensor: Report On Test and Application. May 2000 Sensors Expo (Anaheim, California): 4pp.	
E	AM	Fernandes, R. et al. (2003) Electrochemically Induced Deposition of a Polysaccharide Hydrogel onto a Patterned Surface. Langmuir 19: 4058-4062.	
E	AN	Gupta, B.D. et al. (2001) A Novel Probe for a Fiber Optic Humidity Sensor. Sensors and Actuators B 80: 132-135.	
E	AO	International Road Dynamics Inc., Saskatoon, Saskatchewan, Canada (2002) Concrete Maturity Monitor: Wireless Technology In the Palm of Your Hand. June 2002 (Rev A): 2 pp.	
E	AP	Johnson, B. et al. (2004) Experimental Techniques for Mechanical Characterization of Hydrogels at the Microscale. Experimental Mechanics 44(1): 1-8.	

Examiner Signature	<i>Edwards</i>	Date Considered	4/12/06
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E	AQ	Johnson, B. et al. (2002) Mechanical Properties of a pH Sensitive Hydrogel. Society for Experimental Mechanics, 2002 SEM Annual Conference Proceedings, Milwaukee, WI: 4 pp.	
E	AR	Kharaz, A. et al. (1995) A Distributed Optical-Fibre Sensing System for Multi-Point Humidity Measurement. Sensors and Actuators A 46-47: 491-493.	
E	AS	Khijwania, S.K. et al. (1998) Fiber Optic Evanescent Field Absorption Sensor with High Sensitivity and Linear Dynamic Range. Optics Communications 152: 259-262.	
E	AT	Kim, S.J. et al. (2003) Electrical/pH Sensitive Swelling Behavior of Polyelectrolyte Hydrogels Prepared with Hyaluronic Acid-Poly (vinyl alcohol) Interpenetrating Polymer Networks. Reactive and Functional Polymers 55: 291-298.	
E	AU	Krantz, D. et al. (1999) Project Update: Applied Research on Remotely-Queried Embedded Microsensors. SPIE Proceedings 3673: 157-164 (Smart Structures and Materials 1999: Smart Electronics and MEMS, Paper No. 3672-14).	
E	AV	Livingston, R.A. (1999) FHWA Fiber-Optics Research Program: Critical Knowledge for Infrastructure Improvement. Public Roads (Federal Highway Administration) 63(1) (July/August 1999): 10 pp.	
E	AW	Microchip Technology Inc., Mountain View, California (2002) MCRF355/360: 13.56 MHz Passive RFID Device with Anti-Collision Feature. Publication DS21287F: 1-8.	
E	AX	Microchip Technology Inc., Mountain View, California (1997) Sensor Interface : Transponder. Publication DS40160A/3_001: 3-3 to 3-4.	
E	AY	Millard, S.G. et al. (2001) Coaxial Transmission Lines: Development of Test Procedures for Concrete. Journal of Materials in Civil Engineering May/June 2001: 202-208.	
E	AZ	Ong, K.G. et al. (2001) Design and Application of a Wireless, Passive, Resonant-Circuit Environmental Monitoring Sensor. Sensors and Actuators A 93: 33-43.	

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E	BA	Ong, K.G. et al. (2002) A Wireless, Passive Carbon Nanotube-Based Gas Sensor, IEEE Sensors Journal 2(2): 82-88.	
E	BB	Strain Monitor Systems, Inc., San Diego, California (2000) SMG032: Dual-Peak Output Structural Health Sensors (11/2000): 1p.	
E	BC	Varadan, V.K. et al. (2000) Design and Development of a Smart Wireless System for Passive Temperature Sensors. Smart Mater. Struct. 9: 379-388.	

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